



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
04.11.2015 Bulletin 2015/45

(51) Int Cl.:
G06F 1/16 (2006.01) **G09G 3/20 (2006.01)**
G06T 3/40 (2006.01)

(43) Date of publication A2:
05.08.2015 Bulletin 2015/32

(21) Application number: **15153582.0**

(22) Date of filing: **03.02.2015**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(72) Inventors:
• **Kim, Sang-Ho**
Gyeonggi-do (KR)
• **Bae, Jongsung**
Gyeonggi-do (KR)

(30) Priority: **04.02.2014 KR 20140012730**

(74) Representative: **Mouteney, Simon James**
Marks & Clerk LLP
90 Long Acre
London
WC2E 9RA (GB)

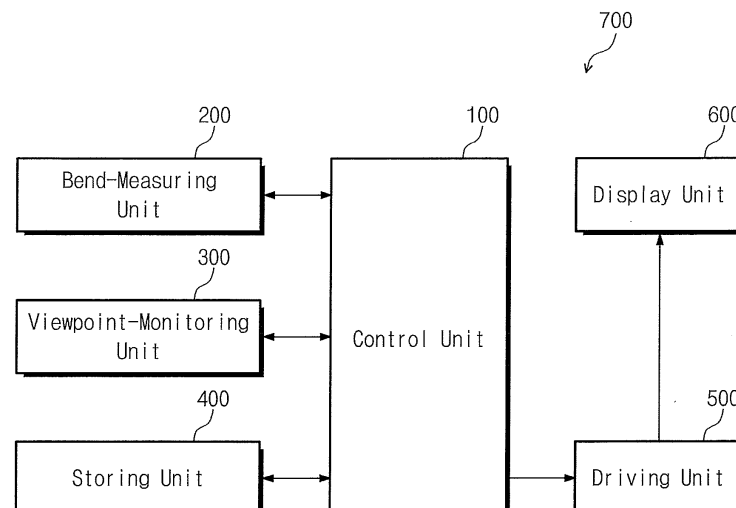
(71) Applicant: **Samsung Display Co., Ltd.**
Gyeonggi-do (KR)

(54) **Display device and method of driving the same**

(57) A display device includes a display unit which displays an image in a bent state and including a plurality of display surfaces divided from each other by a bending position thereof, a bend-measuring unit including a sensor which measures a bending value of the display unit, a viewpoint-monitoring unit including a sensor which measures a viewing position of a viewer, where the view-

ing point-monitoring unit outputs position information based on the viewing position of the viewer, a control unit which compensates image data to be displayed on each of the display surfaces, based on the bending value and the position information, and a driving unit which drives the display unit using the compensated image data.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 15 15 3582

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2012/235893 A1 (PHILLIPS W GARLAND [US] ET AL) 20 September 2012 (2012-09-20) * abstract * * figures 1-6 * * paragraph [0013] - paragraph [0021] * * paragraph [0023] - paragraph [0029] *	1-13	INV. G06F1/16 G09G3/20 G06T3/40
A	US 2012/249622 A1 (YOSHIDA SHIGETO [JP] ET AL) 4 October 2012 (2012-10-04) * paragraph [0238] - paragraph [0242]; figures 19-25 * * paragraph [0275] - paragraph [0282] *	2,13	
A	US 2012/092363 A1 (KIM JAE MIN [KR] ET AL) 19 April 2012 (2012-04-19) * paragraph [0051] - paragraph [0052] * * paragraph [0061] *	4,5	
A	EP 2 500 898 A1 (RESEARCH IN MOTION LTD [CA]) 19 September 2012 (2012-09-19) * abstract * * paragraph [0024] - paragraph [0027] *	1-13	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC) G09G G06F
Place of search Munich		Date of completion of the search 25 September 2015	Examiner Alonso Nogueiro, L
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 15 15 3582

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-09-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2012235893 A1	20-09-2012	NONE	
US 2012249622 A1	04-10-2012	US 2012249622 A1 WO 2011067996 A1	04-10-2012 09-06-2011
US 2012092363 A1	19-04-2012	KR 20120038334 A US 2012092363 A1	23-04-2012 19-04-2012
EP 2500898 A1	19-09-2012	CA 2771508 A1 CN 102723058 A EP 2500898 A1 JP 2012198541 A KR 20120106662 A	18-09-2012 10-10-2012 19-09-2012 18-10-2012 26-09-2012